

Advanced Aperture Framework Balloon Display - # 09/542,674 - Amended Claims - 4/9/03

s - 4/9/03 photo- or 14/17

Void Claims 18 - 37 and substitute the following:

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What is claimed is:

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ned is:

Technology Center 2100

- 5 38. A balloon display comprising:
 - A. At least one framework with a plurality of apertures and
- B. A plurality of inflatable chambers that are at least partially inflated including:
 - (1) a first set of inflatable chambers comprising at least one inflatable chamber positioned so that said first set is circumscribed by at least a first portion of said at least one framework that defines an-aperture; and
 - (2) a second set of inflatable chambers comprising at least one inflatable chamber positioned so that said second set is circumscribed by at least a second portion of said at least one framework that defines an aperture;
 - (3) said first set and said second set being held within their respective apertures by positioning means; said positioning means including positioning means selected from the group consisting of:
 - B. at least one connector member joined by fastening means to said set of inflatable chambers and to said at least one framework;

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1	C.	at least one connector member joined by fastening
2		means to said first set of inflatable chambers and to at
3		least one said second set of inflatable chambers;
4	D.	adhesive that is in contact with said set of inflatable
5		chambers and in contact with circumscribing portion of
6		said at least one framework; said adhesive not
7		including adhesive that is spray applied by an end user
8		to an overlapping cut expandable matrix framework;
9	E.	At least one area of surface that has been configured
10		to increase resistance to movement between it and a
11		contacting surface is included in surface contact
12		between said set of inflatable chambers and
13		circumscribing portion of said at least one framework;
14	F.	At least one member of the pair comprising;
15		1- said set of inflatable chambers and
16		2- circumscribing portion of said at least one
17		framework
		being configured in multiple planes to conform to the
19		shape of adjacent portion/s of said other member of
20		said pair;
21	G.	At least one area of said portion of at least one
22		framework that defines an aperture incorporates
23		resilient, deformable matter that tightens the fit of the
24	. •	framework against said set of inflatable chambers.
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2	39.	The balloon display as recited in claim 38. further comprising said at				
3		least one connector member extending through at least one aperture				
4		in circumscribing portion of said at least one framework.				
5		-				
6	40.	The balloon display as recited in claim 39. further comprising at least				
. 7		one break or gap in the material defining said at least one aperture in				
8		circumscribing portion of said at least one framework; said break or				
. 9		gap being configured such that some portion of said connector				
10		member may be inserted into said aperture through said break or gap.				
11						
12	41.	The balloon display as recited in claim 40. further comprising said				
13		break or gap being configured such that said break or gap is resistant				
14		to said connector member exiting said aperture through said break or				
15		gap.				
16						
17	42.	The balloon display as recited in claim 38. further comprising				
18		said at least one connector member being at least one neck, stem,				
19		tab, protrusion or other extension of the material forming said set of				
20		inflatable chambers.				
21						
22	43.	A balloon display comprising:				
23		A. At least one framework with a plurality of apertures;				
24		B. At least one of said plurality of apertures being formed of				
25		framing elements that are joined with interlocking tabs; and				
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1	C.	A plu	urality of inflatable chambers that are at least partially
2		inflat	ted comprising:
3	-	(1)	a first set of inflatable chambers comprising at least one
4			inflatable chamber positioned so that said first set is
5			circumscribed by at least a first portion of said at least
6			one framework that defines an aperture; and
7		(2)	a second set of inflatable chambers comprising at least
8			one inflatable chamber positioned so that said second set
9			is circumscribed by at least a second portion of said at
10			least one framework that defines an aperture;
11		(3)	said first set and said second set being held within their
12			respective apertures by positioning means; said
13			positioning means including positioning means selected
14	·		from the group consisting of:
15			A. at least one connector member joined by fastening
16			means to said set of inflatable chambers and to said at
17			least one framework;
18			B. at least one connector member joined by fastening
19			means to said first set of inflatable chambers and to at
20			least one said second set of inflatable chambers;
21			C. adhesive that is in contact with said set of inflatable
22			chambers and in contact with circumscribing portion of
23			said at least one framework; said adhesive not
24			including adhesive that is spray applied by an end user
25			to an overlapping cut expandable matrix framework;
26			

l		D. At least one area of surface that has been configured
2		to increase resistance to movement between it and a
3		contacting surface is included in surface contact
4		between said set of inflatable chambers and
5		circumscribing portion of said at least one framework;
6		E. At least one member of the pair comprising;
7		1- said set of inflatable chambers and
8		2- circumscribing portion of said at least one
9		framework
10		being configured in multiple planes to conform to the
11		shape of adjacent portion/s of said other member of
12		said pair;
13		F. At least one area of said portion of at least one
14		framework that defines an aperture incorporates
15		resilient, deformable matter that tightens the fit of the
16		framework against said set of inflatable chambers.
17		
18	44.	The balloon display as recited in claim 43. further comprising
19		A. at least two said interlocking tabs with at least three exposed
20		edges comprising
21		1. at least one end edge and
22		2. at least two side edges and
23		3. at least three notches in a series along said side edges
24		including at least one notch that is preceded and followed
25		by a notch that is on an opposing side edge;

1		В.	at least one of said at least two said interlocking tabs being
2			attached to at least one first framing element and
3		C.	at least one of said at least two said interlocking tabs being
4			attached to at least one second framing element and
5		D.	said interlocking tab attached to said at least one first framing
6			element being wrapped around said interlocking tab attached to
7			said at least one second framing element such that notches of
8			wrapped tabs fit together
9	95		·
10	48.	The I	palloon display as recited in claim 43 further comprising at least
11		two	said interlocking tabs including
12	•	A.	at least one first said interlocking tab attached to at least one
13			first framing element and having within its borders an aperture;
14			and
15		B.	at least one second said interlocking tab attached to at least
16			one second framing element and having a bulbous end or
17			protrusion;
18		C.	said bulbous end being passed through said aperture; and
19		D.	said bulbous end being configured and positioned such that said
20			bulbous end is resistant to passing back through said aperture
21	95		
22	A5.	A ba	lloon display comprising:
23		A.	At least two frameworks with a plurality of apertures and
24		В.	A plurality of inflatable chambers that are at least partially
25			inflated comprising:
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1	1.	a first set of inflatable chambers comprising at least one
2		inflatable chamber positioned so that said first set is
3		circumscribed by at least a first portion of said at least
4		one framework that defines an aperture; and
5	2.	a second set of inflatable chambers comprising at least
6		one inflatable chamber positioned so that said second set
7		is circumscribed by at least a second portion of said at
8		least one framework that defines an aperture;
9	3.	said first set and said second set being held within their
10		respective apertures by positioning means; said
11		positioning means including positioning means selected
12		from the group consisting of:
13		B. at least one connector member joined by fastening
14		means to said set of inflatable chambers and to said at
15		least one framework;
16		C. at least one connector member joined by fastening
17.		means to said first set of inflatable chambers and to at
18		least one said second set of inflatable chambers;
19		D. adhesive that is in contact with said set of inflatable
20		chambers and in contact with circumscribing portion of
21		said at least one framework; said adhesive not
22		including adhesive that is spray applied by an end user
23		to an overlapping cut expandable matrix framework;
24		E. At least one area of surface that has been configured
25	•	to increase resistance to movement between it and a
26		contacting surface is included in surface contact

1		between said set of inflatable chambers and
2		circumscribing portion of said at least one framework;
3		F. At least one member of the pair comprising;
4		1- said set of inflatable chambers and
5		2- circumscribing portion of said at least one
6		framework
7		being configured in multiple planes to conform to the
8		shape of adjacent portion/s of said other member of
9		said pair;
10		G. At least one area of said portion of at least one
11		framework that defines an aperture incorporates
12		resilient, deformable matter that tightens the fit of the
13		framework against said set of inflatable chambers.
14	C.	Said at least two frameworks being connected with connection
15		means; said connection means including connection means
16		selected from the group consisting of:
17		1. at least one said set of inflatable chambers that is
18		circumscribed by a portion of at least one framework that
19		defines an aperture is also circumscribed by at least one
20		portion of at least one other framework that defines an
21		aperture;
22		2. at least one said set of inflatable chambers that is
23		circumscribed by a portion of at least one framework that
24		defines an aperture is connected by connection means to
25		at least one other inflatable chamber that is circumscribed

1			by a portion of at least one other framework that defines
2			an aperture;
3		3.	at least one neck, stem, tab, protrusion or other portion
4			of said at least one set of inflatable chambers is
5			connected by fastening means to said at least two
6			frameworks;
7		4.	at least one tab extension on at least one framework
8			connects by fastening means to at least one other
9			framework;
10		5.	at least one tab extension on at least one framework
11			connects by fastening means to at least one tab
12			extension on at least one other framework.
13			
14	47		46
15	46.	The balloor	n display as recited in claim 45. further comprising
16	•	A. at least	two said tabs with at least three exposed edges
17		compri	sing
18		1. at	least one end edge and at least two side edges and
19		2. at	t least three notches in a series along said side edges
20		in	cluding at least one notch that is preceded and followed by
21		а	notch that is on an opposing side edge
22		B. at lea	ast one of said at least two said tabs being attached to at
23		least	one first frame and
24		C. at le	ast one of said at least two said interlocking tabs being
25	•	atta	ched to at least one second frame and

1		D.	said interlocking tab attached to said at least one first frame
2			being wrapped around said interlocking tab attached to said at
3			least one second frame such that notches of wrapped tabs fit
4			together
5	9B		46
6	47.	The	balloon display as recited in claim 45 further comprising
7		inter	rlocking tabs that connect said at least two frameworks
8		A.	at least two of said interlocking tabs having at least three
9			exposed edges comprising
10			1. at least one end edge and at least two side edges and
11			2. at least three notches in a series along said side edges
12			including at least one notch that is preceded and followed
13			by a notch that is on an opposing side edge
14		B.	at least one of said interlocking tabs being attached to at least
15			one first frame and
16		C.	at least one of said interlocking tabs being attached to at least
17			one second frame and
18		D.	said interlocking tab attached to said first frame being wrapped
19			around said interlocking tab attached to said second frame such
20			that notches in one interlocking tab fit into notches of other
21			interlocking tab.
22	49		46
23	48.	The	balloon display as recited in claim 45 further comprising
24		inter	locking tabs including a set of at least two interlocking tabs
25		A.	the first being attached to at least one first frame and has
26			within its borders an aperture; and

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1		B.	the second being attached to at least one second frame and
2			having a bulbous end or protrusion; and
3		C.	said bulbous end being passed through said aperture; and
4		D.	said bulbous end being configured and positioned such that said
5			bulbous end is resistant to passing back through said aperture.
6	50		46
7	49.	The	balloon display as recited in claim 45 further comprising
8		inter	locking straps said straps incorporating matched sets of notches
9		and/	or slits that may be nested to hold one strap to another at
10		pred	etermined intervals.
11	5(46
12	50.	The	balloon display as recited in claim 45 further comprising a portion
13		of at	least one said set of inflatable chambers that wraps around
14		over	apping portions of said at least two frameworks.